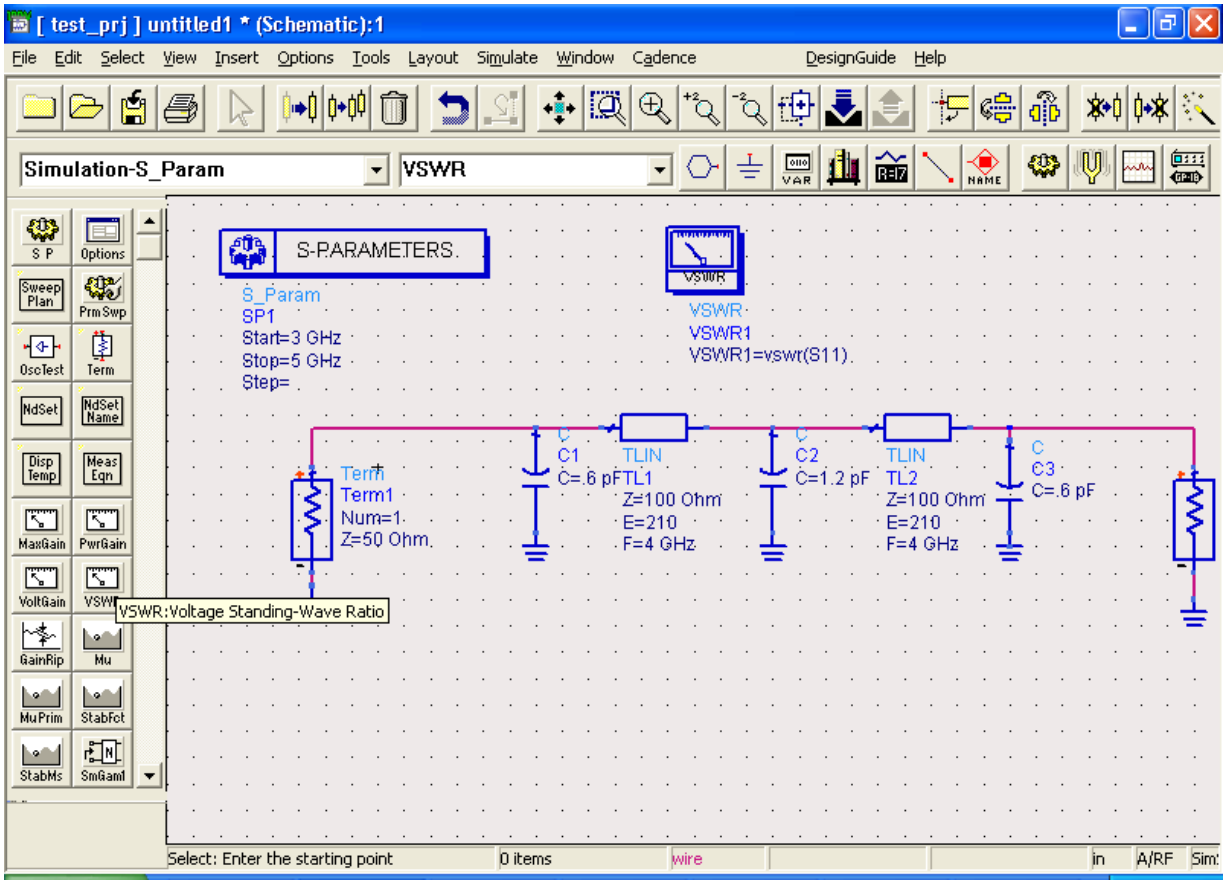
UNIVERSITY OF UTAH
ELECTRICAL AND COMPUTER ENGINEERING

ECE 5320 Autumn 2012

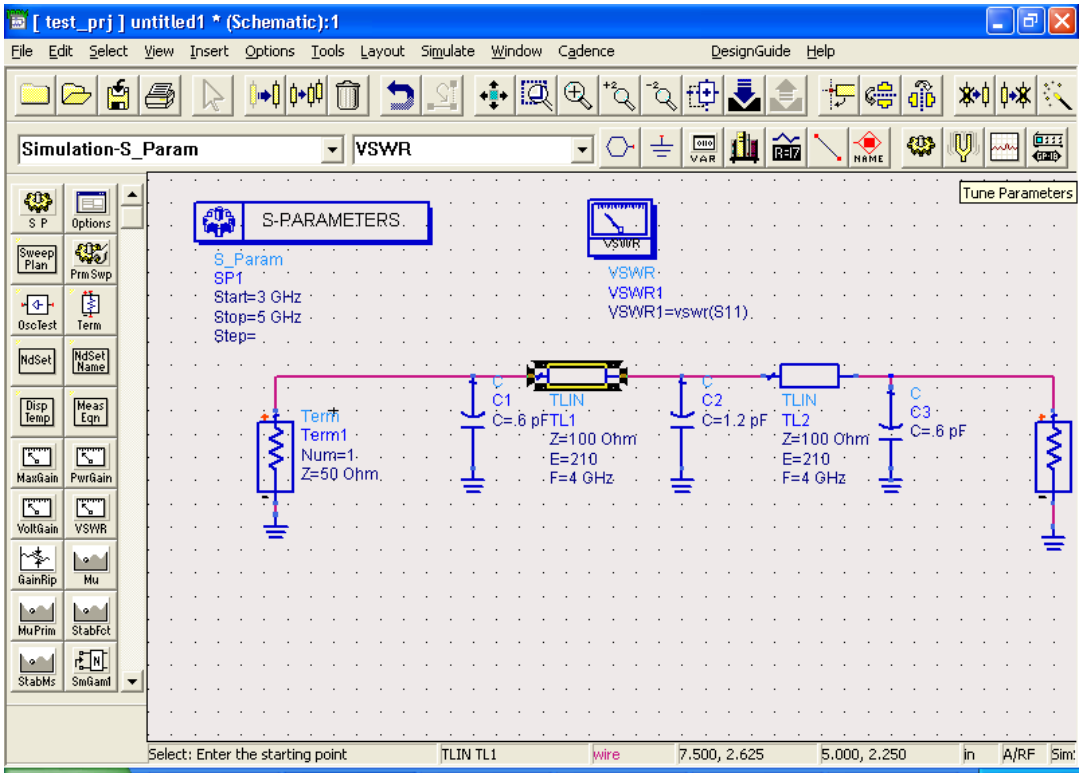
LABORATORY #2 LOAD MATCHING BY SHUNT CAPACITIVE ELEMENTS SUPPLEMENTARY HANDOUT

1. Input the VSWR meter.

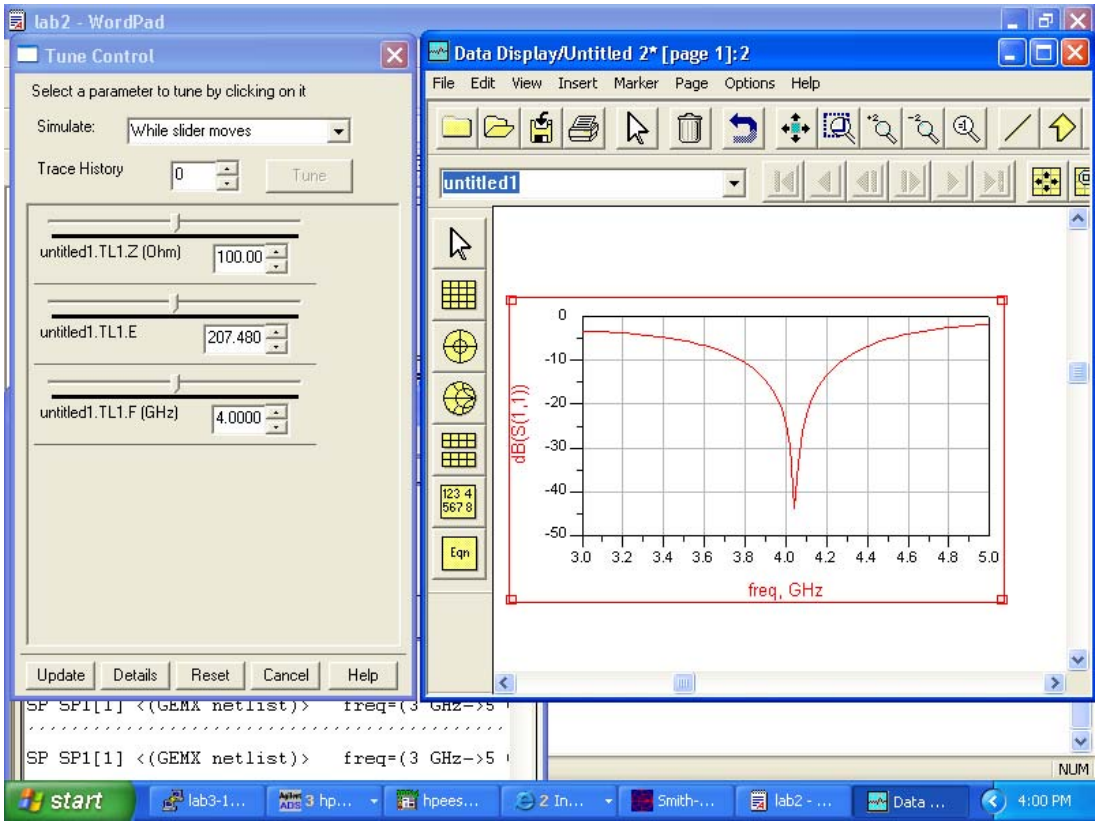


2. Using tuning function.

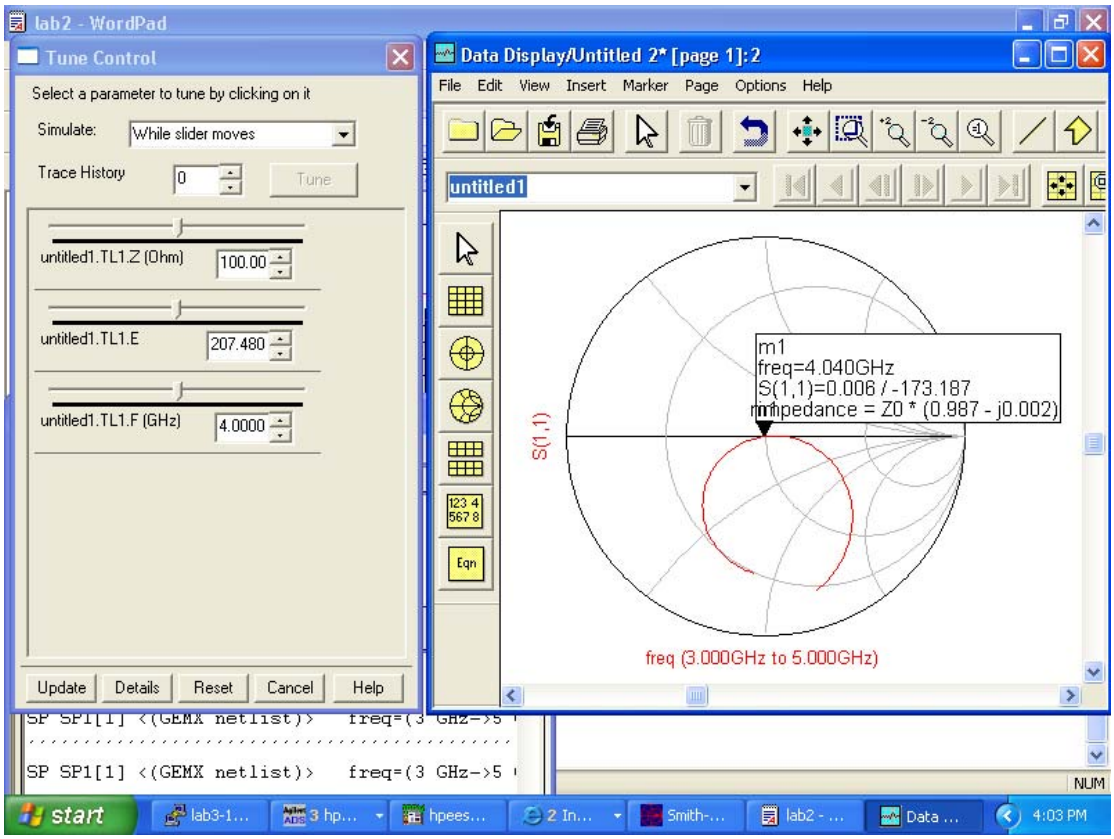
By selecting the tuning function in ADS, the program will show the updated plots like dB plot or Smith Chart while changing the tuned component.
1). Select tuning icon.



2). Tune the component by dB(S11).



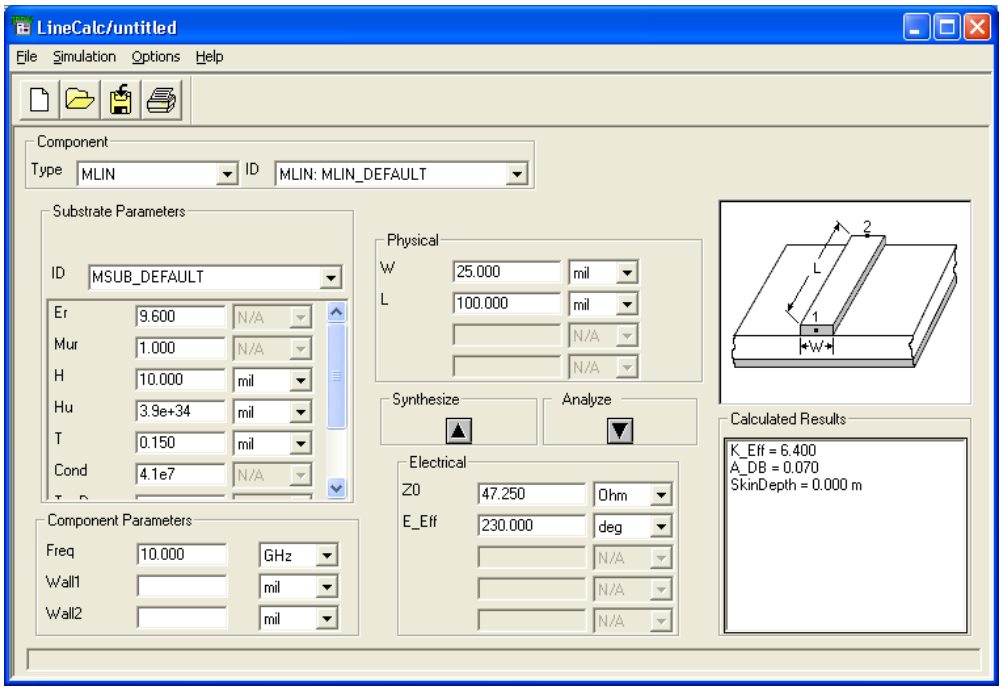
3). Tune the component by S11 on Smith Chart.



3. Using LineCalc.

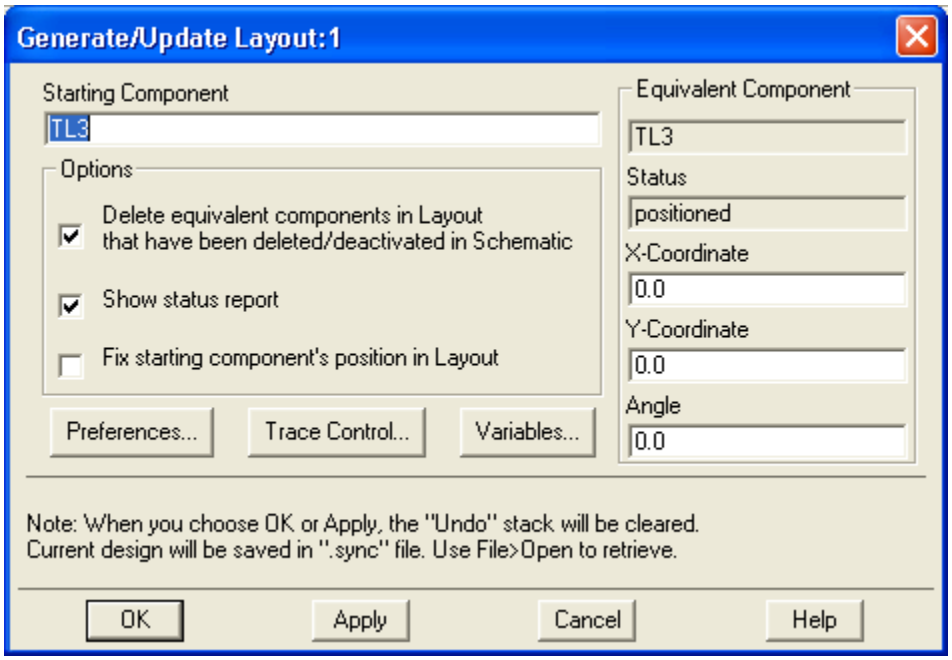
Select 'Tools' -- > 'LineCalc' --> 'Start LineCalc'.

Change the parameters accordingly in the following window.

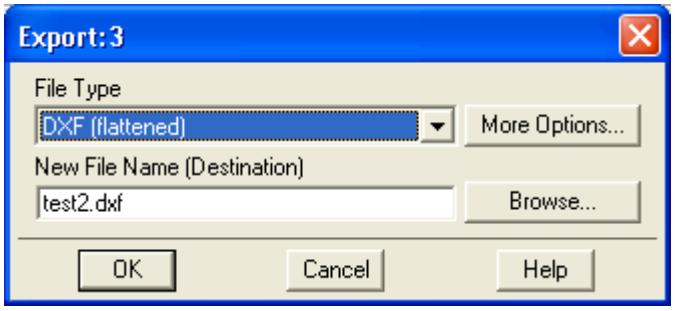


4. Generate layout.

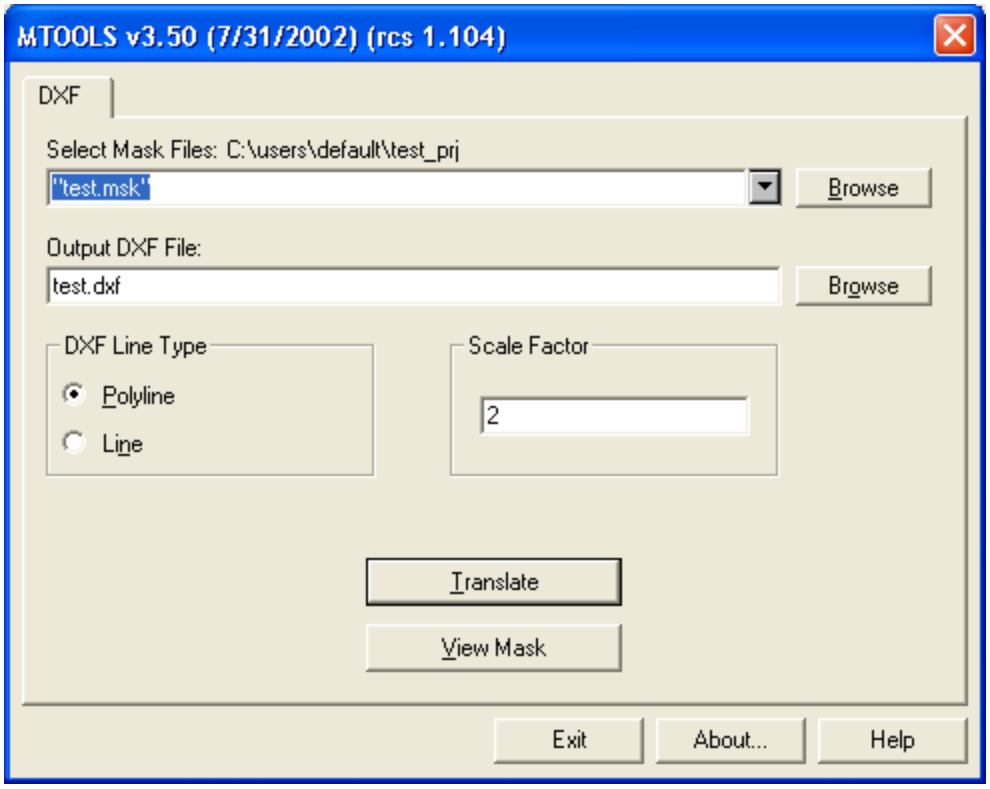
On your schematic window, select 'Layout' --> 'Generate/update Layout'. Press 'ok' on the following popup window.



The layout window will be popping up. Select 'File' --> 'Export'. Select the file type as 'DXF (flattened)' in the next window.



If the File Name is not shown, go to Browse and select the corresponding name under your project folder.
In the following popup 'MTOOLS' window, select/enter the corresponding mask file and the output DXF file name.
(These names should be the same as your schematic file name).
Select the DXF Line Type as 'Polyline', and the Scale Factor as 2. Then press 'Translate', your dxf file will be generated under your project folder.


MTOOLS v3.50 (7/31/2002) (rcs 1.104)
DXF
Select Mask Files: C:\users\default\test_prj
"test.msk"
Browse
Output DXF File:
test.dxf
Browse
DXF Line Type
Polyline
Line
Scale Factor
2
Translate
View Mask
Exit
About...
Help